	Application No.	Applicant(s)	
Notice of Allowability	10/617,199	LEVENDUSKY ET AL.	
	Examiner	Art Unit	
	Laura E. Edwards	1734	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate communalights. This application is sul	nis application. If not included ication will be mailed in due course. Ti	-IIS itiative
1. This communication is responsive to the filing of the applic	ation as of 7/9/03.		
2. X The allowed claim(s) is/are <u>1-51</u> .			
3 . $oxed{oxtime}$ The drawings filed on <u>09 July 2003</u> are accepted by the Ex	caminer.		
4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the company of the deposit attached Examiner's comment regarding REQUIREMENT in the company of the deposit attached Examiner's comment regarding REQUIREMENT in the company of the deposit attached Examiner's comment regarding REQUIREMENT in the company of the deposit attached Examiner's comment regarding REQUIREMENT in the company of the deposit attached Examiner's comment regarding REQUIREMENT in the company of the deposit attached Examiner's comment regarding REQUIREMENT in the company of the certified copies of the priority documents have a company of the certified copies of the priority documents have a company of the certified copies of the priority documents have a company of the certified copies of the priority documents have a company of the certified copies of the priority documents have a company of the certified copies of the priority documents have a company of the certified copies of the priority documents have a company of the certified copies of the priority documents have a company of the certified copies of the priority documents have a company of the certified copies of the priority documents hav	e been received. e been received in Application cuments have been received in of this communication to file an IENT of this application. itted. Note the attached EXAM es reason(s) why the oath or dest be submitted. son's Patent Drawing Review (communication). s Amendment / Communication to fine the header according to 37 CFR sit of BIOLOGICAL MATER	No In this national stage application from the requirements of the requirements	6
 Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 070903 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. ☐ Interview Sum Paper No./M 8), 7. ☒ Examiner's Ar	imal Patent Application (PTO-152) Imary (PTO-413), ail Date Imendment/Comment atement of Reasons for Allowance	
		vaura E. Edwards Primary Examiner Art Unit: 1734	

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An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the specification:

On page 1, line 4, --(abandoned), -- has been inserted after "December 19, 2001,".

The following is an examiner's statement of reasons for allowance:

Claims 1-31 are allowable because there is no teaching or suggestion in the prior art of an apparatus for coating both sides of metal strip with polymer comprising the combination of a preheater for heating an uncoated metal strip, first and second pairs of rolls downstream of the preheater, each pair of rolls including a casting roll and a backup roll, and the casting roll and backup roll for each pair of rolls forming a nip for moving the metal strip therethrough; first and second extrusion dies located above, respectively, the first and second pairs of rolls, the dies disposed to extrude molten polymer webs onto opposite sides of the metal strip at the roll nips or just ahead of the roll nips, and the roll nips press the polymer webs to opposite sides of the metal strip to adhere the polymer webs to the metal strip, a reheater located between the first and second pairs of rolls for reheating the metal strip and polymer web deposited thereon as the metal strip passes between the first and second pairs of rolls, a postheater located downstream of the first and second pairs of rolls for heating the coated metal strip and enhancing bonding between the polymer webs and the opposite sides of the metal strip; and a quenching device located

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downstream of the postheater for quickly cooling the coated metal strip after the strip moves through the postheater.

Claims 32-40 are allowable because there is no teaching or suggestion in the prior art of an apparatus for coating both sides of metal strip with polymer comprising the combination of a preheater for heating uncoated metal strip; a pair of casting rolls located downstream of the preheater, with the casting rolls forming a nip for moving the metal strip therethrough, and with the casting rolls each having a resilient roll surface for contacting the meal strip; first and second extrusion dies located above, respectively, the casting rolls, with the extrusion dies disposed to extrude molten polymer webs onto opposite sides of the metal strip at the roll nip formed by the casting rolls or just ahead of the roll nip, and with the roll nip pressing the polymer webs to the opposite sides of the metal strip to adhere the polymer webs to the metal strip, a postheater located downstream of the casting rolls for heating the metal strip and enhancing the bonding between the polymer webs and opposite sides of the metal strip; and a quenching device located downstream of the postheater for quickly cooling the coated metal strip after the metal strip moves through the postheater.

Claims 41-51 are allowable because there is no teaching or suggestion in the prior art of an apparatus for coating both sides of metal strip with polymer comprising the combination of a preheater for heating uncoated metal strip; a pair of applicator rolls downstream of the preheater, with the applicator rolls forming a roll nip for moving the metal strip therethrough, a pair of pinning and drawing rolls located adjacent, respectively, the applicator rolls; first and second extrusion dies located above, respectively, the pinning and drawing rolls, the extrusion dies extrude molten polymer webs onto the roll surfaces of the pinning and drawing rolls, the

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pinning and drawing rolls operable to rotate at a higher surface velocity than the velocity of the molten polymer webs exiting the extrusion dies, thereby drawing the polymer webs to a reduced thickness prior to passing the polymer webs to the applicator rolls, and the with the roll nip formed by the applicator rolls configured to press the polymer webs to opposite sides of the metal strip to adhere the polymer webs to the metal strip, a postheater located downstream of the applicator rolls for heating the metal strip and enhancing the bonding between the polymer webs and the opposite sides of the metal strip, and a quenching device downstream of the postheater for quickly cooling the coated metal strip after the metal strip moves through the postheater.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patent discloses the state of the art with respect to an extruder arrangement including pre-heating and post cooling: Olvey (US 5,772,819). The following patent discloses the state of the art with respect to a powder coating arrangement for a web including preheating, coating via rollers, postheating: Schermutzki (US 4,790,257).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura E. Edwards whose telephone number is (571) 272-1227. The examiner can normally be reached on Monday-Friday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Crispino can be reached on (571) 272-1226. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Łaura E. Edwards Primary Examiner

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February 25, 2004